

DIGITAL PRESSURE INDICATOR

4 DIGITS - DPI / RPI / DPG



KEY FEATURES

- + Vacuum, Low and High Pressure Indication
- + 4-Digit [kPa] Display Version
- + I/O Driver integrated for Alarms, Regulation, Etc. – Optional
- + CAN Bus Or One Wire Interface
- + Multiple sensor input
- + Super Bright LED Display

DPI types of Digital Pressure Indicators are designed to display system pressure using 3 or 4-digit ultra-bright LED display where multiple pressure sensors can be connected. The unit standardly uses a -1..24 bar, 0..25 bar and 0..60 bar pressure sensors. The sensor input is widely configurable and it can be used for 0.5-4.5 V and 0-10 V transducers or 4-20 mA transmitters.

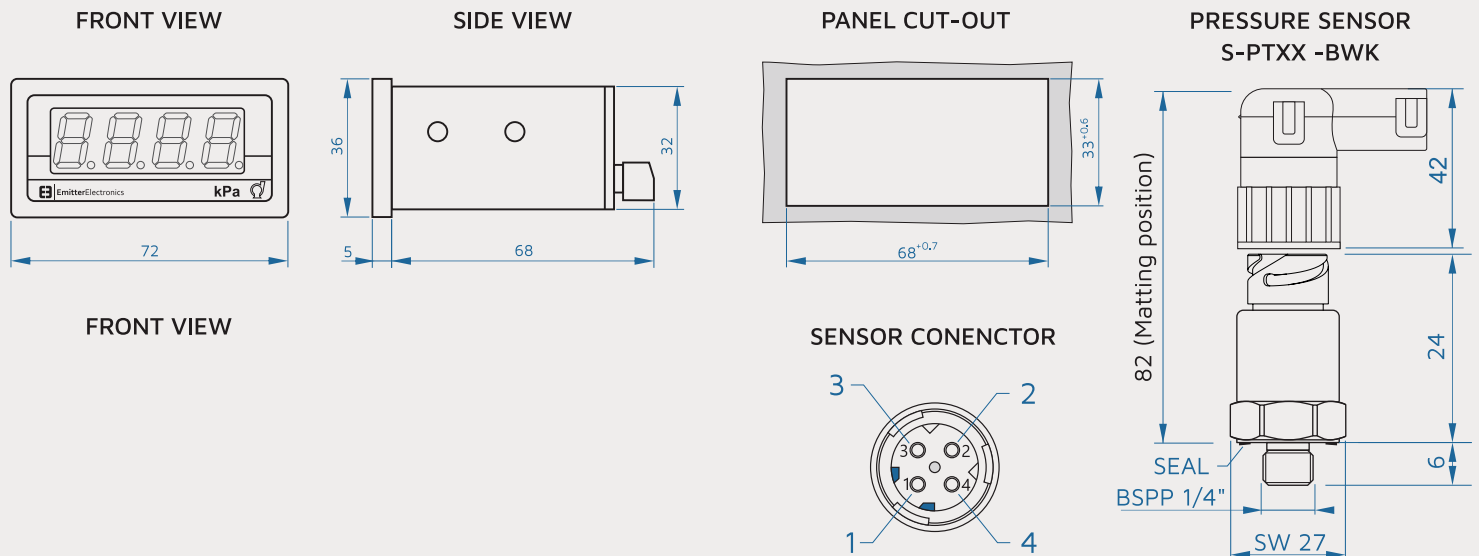
Optional I/O driver can be integrated for activating warning output, regulating the system pressure, etc.

The Digital Pressure Indicator can be used as a stand-alone system or as a part of MMX system connected via CAN bus to IO Controller. Several slave-remote pressure indicators (RPI) can be connected to a main indicator DPI to show the same value on different locations.

SPECIFICATIONS

POWER	
Supply Voltage	9-30 V DC
Current	0.5 A maximum, no outputs active
Electrical Protection	overvoltage, transients, reverse polarity
INTERFACES	
CAN	1 x CAN
CAN termination	120 ohm, solder pad on PCB
Serial communication	1 x T (1 Wire), optional
I/O	
Sensor input	0.5-4.5 V Standardly, 0-5V, 0-10V, 4-20 mA
Digital Input	GND, only with CAN bus device
Digital Output	<i>*Only version with integrated I/O driver</i>
OUT1	positive switching (high-side), max. 6 A (Low water warning)
OUT2	positive switching (high-side), max. 1.5 A (Autofill-Hysteresis)
OUT3-OUT7	negative switching (low-side), max. 1.8 A (large light driver)
Loads	Inductive, capacitive, resistive
ENVIROMENT	
IP Class (IEC529)	IP67 front panel, IP20 from the back
EMC Conformity	EN61000-6-2 noise immunity EN61000-6-4 radiation of interference
Temperature Range	storage -40° to +85°C (-40° to 185°F) operating -40° to +85°C (-40° to 185°F)
ENCLOSURE	
Housing Material	aluminium
Mounting	in-dash, with clips or springs
Mating Connector	Terminal block 4, 8 or 13 way depending on selected options
MISCELLANEOUS	
LED display	4 digit (kPa)
Reading resolution	@P<30 bar: 0.1 bar (10 kPa), @P>30 bar: 1 bar
SIZE & WEIGHT	
W x H x D	36 x 72 x 68 mm with connector
Weight	0.10 kg

DIMENSIONS



CONNECTIONS

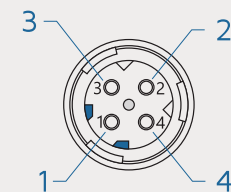
CONNECTION STANDARD DEVICE

PIN	Description
1	BATTERY + ("15")
2	BATTERY -
3	OUT1 (OPTIONAL)
4	T-COMMUNICATION
5	SENSOR [V] GND
6	SENSOR [V]/[mA] SIGNAL
7	SENSOR [V]/[mA] VCC+
8	OUT2 (OPTIONAL)
9	OUT3 (OPTIONAL)
10	OUT4 (OPTIONAL)
11	OUT5 (OPTIONAL)
12	OUT6 (OPTIONAL)
13	OUT7 (OPTIONAL)

CONNECTION CAN BUS DEVICE

PIN	Description
1	BATTERY + ("15") / SENSOR SUPPLY (OPTIONAL)
2	BATTERY - / SENSOR GND (OPTIONAL)
3	OUT1 (OPTIONAL)
4	T-COMMUNICATION / OUT3 (OPTIONAL)
5	IN1
6	SENSOR [V]/[mA] SIGNAL
7	OUT5 (OPTIONAL)
8	SENSOR [V]/[mA] VCC+ / OUT4 (OPTIONAL)
9	OUT5 (OPTIONAL)
10	SENSOR [V] GND / OUT6 (OPTIONAL)
11	OUT7 (OPTIONAL)
12	CAN L
13	CAN H

TRANSDUCER OEM



CONNECTION TWIST LOCK (ISO 15170)

PIN	VOLTAGE SENSOR	CURRENT SENSOR
1	BATTERY +	BATTERY +
2	GND	SIGNAL 4-20 MA
3	SIGNAL 0.5-4.5V	N/C
4	N/C	N/C

PRODUCT CODE

SET of DPI - main indicator, pressure sensor

Ordering code example:

D	P	G	-	0	0	2	5	T	-	R	R				
				MEASURING RANGE 0024: -1 .. 24 BARS 0025: 0 .. 25 BARS 0060: 0 .. 60 BARS 2200: 0 .. 2200 KPA				T: 1 WIRE C: CAN BUS		OUT1 R: OUTPUT 1		OUT2 H: HYSTERESIS R: ADD. OUTPUT		SPECIAL MODIFICATION	

Remote Indicator

Ordering code example:

R	P	I	-	B	T	I	R	R	
				UNITS: B: BAR P: KPA	T: 1 WIRE C: CAN BUS	LED BRIGHTNESS I: INSIDE O: OUTSIDE	OUT1 R: OUTPUT 1	OUT2 H: HYSTERESIS R: ADD. OUTPUT	

Main Indicator

Ordering code example:

Main interface													Encoding code examples				
D	P	I	-	0	0	2	5	I	2	T	R	R					
				MEASURING RANGE 0024: -1 .. 24 BARS 0025: 0 .. 25 BARS 0060: 0 .. 60 BARS 2200: 0 .. 2200 KPA				SENSOR INPUT / PROBE U4: 0,5-4,5V U1: 0-10 V I2: 4-20 MA		T: 1 WIRE C: CAN BUS		OUT1 R: OUTPUT 1		OUT2 H: HYSTERESIS R: ADD. OUTPUT		SPECIAL MODIFICATION	